

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9291

Package Model No.: LIQUI-Rad

Report Submitted By: Wes Stilwell, Westinghouse Electric Company, LLC

Report Date: April 21, 2017.

Report ADAMS Accession No.: ML17111A859

Review the incoming report to determine if additional Commission or staff action is warranted. The review should consider whether the report identifies a generic defect or problem with the package design and the safety significance of the issue. Note that a high safety significance represents a potential for significant radiation exposure, medium safety significance represents a potential for some moderate radiation exposure, and low safety significance represents little or no potential for radiation exposure.

1. The report identifies:

- Significant reduction in the effectiveness of a package during use;
- Defect with a safety significance;
- Shipment in which conditions of the approval were not observed.

2. What is the safety significance? High Medium Low

3. Summary of the report:

From February 14 to 15, 2017, Columbia Fuel Fabrication Facility (CFFF) (a Westinghouse Electric Company, LLC, (WEC) facility) personnel performed an annual performance maintenance of all LR-230 packages (Model No. LIQUI-Rad packages). During this maintenance, CFFF personnel inspected and tested package No. LR-011 and returned the empty package to Nuclear Fuel Services (NFS) on February 17, 2017. On February 21, NFS' personnel discovered that the nut of one of the primary studs was placed on the stud without a washer at CFFF prior to transport to NFS.

Condition No 5.(a)(3) of the certificate of compliance for the Model No. LIQUI-Rad requires a package assembly per Columbian Hi Tech drawing No. LR-SAR, Revision 9. Specifically Note 3, which includes the containment vessel washers. This washer was required on the containment vessel closure lid. In its April 21, 2017, report pursuant 10 CFR 71.95, WEC pointed out that the LR-011 package passed the leak test successfully prior to send the package to NFS.

WEC determined that the cause of the missing washer was human error due to either not installing or verifying installation of the washer.

There were no safety consequences of this event.

4. Corrective actions taken by the licensee:

Per letter dated April 21, 2017, the package user (WEC) holder took the following actions:

- WEC inspected all LR-230 packages that it owns and documented the inspection in its corrective action program (CAPAL) as CAPAL No. 100455877.

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4. Corrective actions taken by the licensee: (Continue)

- WEC also performed an analysis to determine the actions needed to correct similar situations. WEC found another package (package No. LR-026) with one washer in one stud and another stud with two washers.
- WEC already took the following corrective actions:
 - Inspected the remaining LR-230 packages for missing washers. (Completed on March 10, 2017)
 - Revised the procedure for offloading uranyl nitrate from LR-230 package (procedure No. COP-836047) to add steps to:
 - During the initial inspection prior to loading, identify damaged, deteriorated, or missing washers, and
 - verify that washers are in place before reinstalling the lids.
 - Revised procedure for the annual maintenance and inspection of LR-230 packages (procedure No. COP-836052) to verify that washers are in place before reinstalling each lid.

5. Staff comments:

The staff used the information provided by WEC to complete the evaluation of the report submitted by WEC on April 21, 2017.

6. Staff conclusion:

- The report does NOT identify generic design or license/certificate issues that warrant additional Commission or staff action. This report is considered closed.
- There is a need to take additional action. Provide a summary of the bases and recommended actions:

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